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TECH CENTER 1600/2900

1600

RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/810,836B

TIME: 16:45:23

Input Set : A:\SEQLIST514442001200.TXT Output Set: N:\CRF3\08222002\I810836B.raw

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30	Caac					_		_	_		-	_		-	-	lu Ser		50
31			1	Lu I	y 1 50		y	ur A	sp A	5P 5		10	111 11	III S	er G.	15		
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	Leu																	70
35	Licu	DCI	110	501	20		110	-15	110	25	1111	1111	1111	Olu	30	цуб		
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	Leu																_	- • •
39				35					40	5		-1-	5	45	1			
41	ggc	qqa	agc	age	qtc	qtt	tta	qat	tca	qaq	aac	qqc	atc	gag	acc	gag	1	194
	Gly																	
43	-	•	50					55				. 1	60					
45	tca	cqt	aaq	ctt	cct	tcq	tcq	aaa	tat	aaa	qqc	gtt	gtg	cct	caq	cct	2	242
	Ser																	
47		65	_				70	-	•	-	_	75						
49	aac	gga	aga	tgg	gga	gct	cag	att	tac	gag	aag	cat	cag	cga	gtt	tgg	2	290
50	Asn	Gly	Arg	Trp	Gly	Ala	Gln	Ile	Tyr	Glu	Lys	His	Gln	Arg	Val	Trp		
51	80					85					90					95		
53	ctc	ggt	act	ttc	aac	gag	gaa	gaa	gaa	gct	gcg	tct	tct	tac	gac	atc	3	338
54	Leu	Gly	Thr	Phe	Asn	Glu	Glu	Glu	Glu	Ala	Ala	Ser	Ser	Tyr	Asp	Ile		
55					100					105					110			
57	gcc	gtg	agg	aga	ttc	cgc	ggc	cgc	gac	gcc	gtc	act	aac	ttc	aaa	tct	3	886
58	Ala	Val	Arg	Arg	Phe	Arg	Gly	Arg	Asp	Ala	Val	Thr	Asn	Phe	Lys	Ser		
59				115					120					125				
	caa																4	34
62	Gln	Val	Asp	Gly	Asn	Asp	Ala	Glu	Ser	Ala	Phe	Leu	Asp	Ala	His	Ser		

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63			130					135					140				
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66	Lys	Ala	Glu	Ile	Val	Asp		Leu	Arg	Lys	His		Tyr	Ala	Asp	Glu	
67		145					150					155					
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70	Phe	Glu	Gln	Ser	Arg	Arg	Lys	Phe	Val	Asn	Gly	Asp	Gly	Lys	Arg	Ser	
	160					165					170					175	
73	ggg	ttg	gag	acg	gcg	acg	tac	gga	aac	gac	gct	gtt	ttg	aga	gcg	cgt	578
74	Gly	Leu	Glu	Thr	Ala	Thr	Tyr	Gly	Asn	Asp	Ala	Val	Leu	Arg	Ala	Arg	
75					180					185					190		
77	gag	gtt	ttg	ttc	gag	aag	act	gtt	acg	ccg	agc	gac	gtc	ggg	aag	ctg	626
78	Glu	Val	Leu	Phe	Glu	Lys	Thr	Val	Thr	Pro	Ser	Asp	Val	Gly	Lys	Leu	
79				195					200					205			
81	aac	cgt	tta	gtg	ata	ccg	aaa	caa	cac	gcg	gag	aag	cat	ttt	ccg	tta	674
82	Asn	Arg	Leu	Val	Ile	Pro	Lys	Gln	His	Ala	Glu	Lys	His	Phe	Pro	Leu	
83			210				-	215				-	220				
85	cca	aca	atq	acq	acq	qcq	atq	qqq	atq	aat	ccq	tct	ccq	acq	aaa	qqc	722
	-	-	-	_	_		_		_		_		-	-	Lys		
87		225					230	4				235			-	-	
	att		att	aac	t.t.a	αаа		aσa	aca	aaa	aaa		t.aa	caa	ttc	cat.	770
															Phe		, , ,
	240					245		5		1	250		r			255	
		agt	tac	taa	aac		agt	caa	agt.	tac		t.t.a	acc	aaσ	ggc		818
		_													Gly		0.20
95	-1-	001	-1-	112	260	001	UGI	01	001	265	,	200			270		
	age	caa	ttc	att		αaα	aad	aat	ctt		acc	aat	gat	ata	gtt	tat	866
	_			_			_			-	•		_		Val	_	000
99	OCI	1119	LIIC	275	цу	OLU		11011	280	*** 9	2114	0-1	P	285	, 41	010	
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103		, 010	290			. 01)	, , , , ,	295		, 011		1-	300		3 6	212	
		· cac			- 000	ratt	cac			ratt	- agr	r cta			ato	aac	962
																Asn	702
107		305		. 561	. F1(, va	310		. vui	. va.	r wr	315		- GI	y va.	. ASII	
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			ASI	ı val	r ser	325		ггъх	PIC	ASI			L Ala	ı va.	r Gri	1 Cys 335	
	. 320							. ~~.	. ~-+	. ~~+	33(+ 44		~~~		1058
																tgt	1020
		GIZ	у гуз	з глуз			Arc	GIU	ı ASL			Pne	3 Se1	r Let		Cys	
115					340					345			+ + .		350		1111
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119				355					360								
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	_	_	_	caag	jaaaa	iaa t	gaca	iacta	ig ac	aaaa	rtagt	בנו	Ligit	Laa	aaaa	aaaaaa	1231
		aaaa															1239
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127	<21	.2> 1	YPE:	PRI													

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Input Set: A:\SEQLIST514442001200.TXT
Output Set: N:\CRF3\08222002\I810836B.raw

128 <213> ORGANISM: Arabidopsis thaliana 130 <400> SEQUENCE: 2 131 Met Glu Tyr Ser Cys Val Asp Asp Ser Ser Thr Thr Ser Glu Ser Leu 10 133 Ser Ile Ser Thr Thr Pro Lys Pro Thr Thr Thr Glu Lys Lys Leu 25 135 Ser Ser Pro Pro Ala Thr Ser Met Arg Leu Tyr Arg Met Gly Ser Gly 137 Gly Ser Ser Val Val Leu Asp Ser Glu Asn Gly Val Glu Thr Glu Ser 139 Arg Lys Leu Pro Ser Ser Lys Tyr Lys Gly Val Val Pro Gln Pro Asn 141 Gly Arg Trp Gly Ala Gln Ile Tyr Glu Lys His Gln Arg Val Trp Leu 90 143 Gly Thr Phe Asn Glu Glu Glu Glu Ala Ala Ser Ser Tyr Asp Ile Ala 100 105 145 Val Arg Arg Phe Arg Gly Arg Asp Ala Val Thr Asn Phe Lys Ser Gln 120 147 Val Asp Gly Asn Asp Ala Glu Ser Ala Phe Leu Asp Ala His Ser Lys 135 140 149 Ala Glu Ile Val Asp Met Leu Arg Lys His Thr Tyr Ala Asp Glu Phe 150 151 Glu Gln Ser Arg Arg Lys Phe Val Asn Gly Asp Gly Lys Arg Ser Gly 165 170 153 Leu Glu Thr Ala Thr Tyr Gly Asn Asp Ala Val Leu Arg Ala Arg Glu 180 185 155 Val Leu Phe Glu Lys Thr Val Thr Pro Ser Asp Val Gly Lys Leu Asn 200 157 Arg Leu Val Ile Pro Lys Gln His Ala Glu Lys His Phe Pro Leu Pro 215 159 Ala Met Thr Thr Ala Met Gly Met Asn Pro Ser Pro Thr Lys Gly Val 230 235 161 Leu Ile Asn Leu Glu Asp Arg Thr Gly Lys Val Trp Arg Phe Arg Tyr 245 250 163 Ser Tyr Trp Asn Ser Ser Gln Ser Tyr Val Leu Thr Lys Gly Trp Ser 260 265 270 165 Arg Phe Val Lys Glu Lys Asn Leu Arg Ala Gly Asp Val Val Cys Phe 280 167 Glu Arg Ser Thr Gly Pro Asp Arg Gln Leu Tyr Ile His Trp Lys Val 295 169 Arg Ser Ser Pro Val Gln Thr Val Val Arg Leu Phe Gly Val Asn Ile 310 315 170 305 171 Phe Asn Val Ser Asn Glu Lys Pro Asn Asp Val Ala Val Glu Cys Val 330 173 Gly Lys Lys Arg Ser Arg Glu Asp Asp Leu Phe Ser Leu Gly Cys Ser 345 350 175 Lys Lys Gln Ala Ile Ile Asn Ile Leu 355 178 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING

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	-				_			-			tcag				-	_	116
191		- 5 5 - 1		, -	,				-	J		- 5	- J		-	Asp	
192															1		
	t.t.t.	σac	σασ	σασ	cta	aat	ctt	tat	att	acq	aaa	aat	aaa	aat		gat	164
											Lys						
196		L	5					10			-1-	1	15				
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		cct	tat	t.ca	tta		act	ttc	cct	ttt	tct	ctc	gat	cca	aca		308
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208			-1-		55					60			<u>r</u>		65		
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212				70				1	75	-1-				80			
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	-		-	_					-	-	Gln	_				_	
216			85					90		1			95				
218	cct	caa	caa	caa	caa	caq	cag	cag	caq	tat	atg	qcc	caq	tac	tgg	agt	452
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226	caa	gaa	gct	gtt	caa	cct	tac	atc	gca	acg	aag	ctg	tac	aga	gga	gtg	548
227	Gln	Glu	Ala	Val	Gln	Pro	Tyr	Ile	Ala	Thr	Lys	Leu	Tyr	Arg	Gly	Val	
228					135					140					145		
230	aga	caa	cgt	caa	tgg	gga	aaa	tgg	gtc	gca	gag	atc	cgt	aag	cca	cga	596
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234	agc	agg	gca	cgt	ctt	tgg	ctt	ggt	acc	ttt	gat	aca	gct	gaa	gaa	gct	644
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236			165					170					175				
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	a a a	at t	220	ttα		agg	aan	gaa	cta		ata	att	aat	att		aga	836
								Glu									000
252	GIU	VUI	поп	230	Olu	OCI	цуо	Olu	235		, 41	110	пор	240		**** 9	
	a a a	паа	aat		act	пап	aca	tgg		aat	acc	att	aca		gga	taa	884
								Trp									001
256	GIU	Oru	245	1100	1114	Olu	1114	250	- 1 -	11011			255	501			
	aat	cct		agt	cct	ctt	taa	gat	gat	tta	gat	agt		cat	caq	ttt	932
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260	GIY	260	Olu	JCI	110	пси	265	ns _P	шьр	200	1101	270	001		V 1.11	1	
	tca		gaa	agg	tca	tct		tct	cct	ctc	tct		cct	atα	аσσ	cct	980
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	275	261	Gru	DCI	DCI	280	DCI	DCI	110	Deu	285	CJS	110	1100	111 9	290	
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		•							-							aaaaaa	1209
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280 281 282	<400 Met)> SI Asp	EQUEN Phe	ICE: Asp	4 Glu 5	Glu	Leu	Asn	Leu	Cys 10					15		
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280 281 282 283 284	<400 Met 1 Val)> SI Asp Asp	EQUEN Phe His	NCE: Asp Ser 20	4 Glu 5 Phe	Glu Gly	Leu Gly	Asn Glu	Leu Ala 25	Cys 10 Ser	Ser	Thr	Ser	Pro 30	15 Arg	Ser	
280 281 282 283 284 285	<400 Met 1 Val)> SI Asp Asp	EQUEN Phe His	NCE: Asp Ser 20	4 Glu 5 Phe	Glu Gly	Leu Gly	Asn	Leu Ala 25	Cys 10 Ser	Ser	Thr	Ser	Pro 30	15 Arg	Ser	
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280 281 282 283 284 285 286 287 288 290 291 292 293 294 295 296	<400 Met 1 Val Met Ser Thr 65 Glu Phe Trp	Asp Asp Lys Ser 50 Leu Gln Ser	EQUENT Phe His Lys 35 Ser Gln Arg Pro Asp 115	Ser 20 Met Pro Asn Gln 100 Thr	4 Glu 5 Phe Lys Tyr Gln Asp 85 Gln Leu	Glu Gly Ser Ser Gln 70 Pro Gln Asn	Leu Gly Pro Leu 55 Gln Thr Gln Leu	Asn Glu Ser 40 Glu Gln Met Gln Ser	Leu Ala 25 Arg Ala Leu Gln Gln 105 Pro	Cys 10 Ser Pro Phe Gly Gly 90 Gln Arg	Ser Lys Pro Ser 75 Gln Gln	Thr Pro Phe 60 Tyr Lys Tyr Arg	Ser Tyr 45 Ser Val Gln Met Met 125	Pro 30 Phe Leu Pro Met Ala 110 Met	15 Arg Gln Asp Val Ile 95 Gln Met	Ser Ser Pro Leu 80 Ser Tyr Met	
280 281 282 283 284 285 286 287 288 290 291 292 293 294 295 296 297 298	<400 Met 1 Val Met Ser Thr 65 Glu Phe Trp	Asp Asp Lys Ser 50 Leu Gln Ser Ser ser	EQUENT Phe His Lys 35 Ser Gln Arg Pro Asp 115 Gln	Ser 20 Met Pro Asn Gln 100 Thr Glu	4 Glu 5 Phe Lys Tyr Gln Asp 85 Gln Leu Ala	Glu Gly Ser Ser Gln 70 Pro Gln Asn Val	Leu Gly Pro Leu 55 Gln Thr Gln Leu Gln 135	Asn Glu Ser 40 Glu Gln Met Gln Ser 120	Leu Ala 25 Arg Ala Leu Gln Gln 105 Pro	Cys 10 Ser Pro Phe Gly Gly 90 Gln Arg	Ser Lys Pro Ser 75 Gln Gln Gly Ala	Thr Pro Phe 60 Tyr Lys Tyr Arg Thr 140	Ser Tyr 45 Ser Val Gln Met Met 125 Lys	Pro 30 Phe Leu Pro Met Ala 110 Met Leu	15 Arg Gln Asp Val Ile 95 Gln Met	Ser Ser Pro Leu 80 Ser Tyr Met Arg	
280 281 282 283 284 285 286 287 288 290 291 292 293 294 295 296 297 298 299	<400 Met 1 Val Met Ser Thr 65 Glu Phe Trp	Asp Asp Lys Ser 50 Leu Gln Ser Ser ser	EQUENT Phe His Lys 35 Ser Gln Arg Pro Asp 115 Gln	Ser 20 Met Pro Asn Gln 100 Thr Glu	4 Glu 5 Phe Lys Tyr Gln Asp 85 Gln Leu Ala	Glu Gly Ser Ser Gln 70 Pro Gln Asn Val	Leu Gly Pro Leu 55 Gln Thr Gln Leu Gln 135	Asn Glu Ser 40 Glu Gln Met Gln Ser 120 Pro	Leu Ala 25 Arg Ala Leu Gln Gln 105 Pro	Cys 10 Ser Pro Phe Gly Gly 90 Gln Arg	Ser Lys Pro Ser 75 Gln Gln Gly Ala	Thr Pro Phe 60 Tyr Lys Tyr Arg Thr 140	Ser Tyr 45 Ser Val Gln Met Met 125 Lys	Pro 30 Phe Leu Pro Met Ala 110 Met Leu	15 Arg Gln Asp Val Ile 95 Gln Met	Ser Ser Pro Leu 80 Ser Tyr Met Arg	
280 281 282 283 284 285 286 287 288 290 291 292 293 294 295 296 297 298 299 300	<pre><400 Met 1 Val Met Ser Thr 65 Glu Phe Trp Met Gly 145</pre>	Asp Asp Lys Ser 50 Leu Gln Ser Ser 130 Val	EQUENT Phe His Lys 35 Ser Gln Arg Pro Asp 115 Gln Arg	Ser 20 Met Pro Asn Gln 100 Thr Glu Gln	4 Glu 5 Phe Lys Tyr Gln Asp 85 Gln Leu Ala Arg	Glu Gly Ser Ser Gln 70 Pro Gln Asn Val Gln 150	Leu Gly Pro Leu 55 Gln Thr Gln Leu Gln 135 Trp	Asn Glu Ser 40 Glu Gln Met Gln Ser 120 Pro	Leu Ala 25 Arg Ala Leu Gln Gln 105 Pro Tyr Lys	Cys 10 Ser Pro Phe Gly 90 Gln Arg Ile	Ser Lys Pro Ser 75 Gln Gln Gly Ala Val 155	Thr Pro Phe 60 Tyr Lys Tyr Arg Thr 140 Ala	Ser Tyr 45 Ser Val Gln Met 125 Lys Glu	Pro 30 Phe Leu Pro Met Ala 110 Met Leu	15 Arg Gln Asp Val Ile 95 Gln Met Tyr	Ser Ser Pro Leu 80 Ser Tyr Met Arg Lys 160	

VERIFICATION SUMMARY

DATE: 08/22/2002 TIME: 16:45:24

PATENT APPLICATION: US/09/810,836B

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